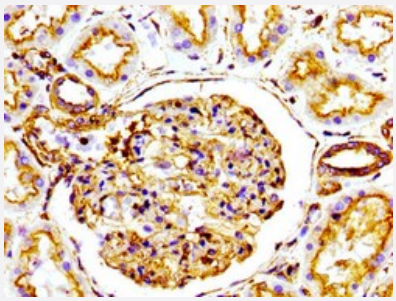
RecomAb™ Sm Size

ACTA1 recombinant monoclonal antibody, clone 25E3

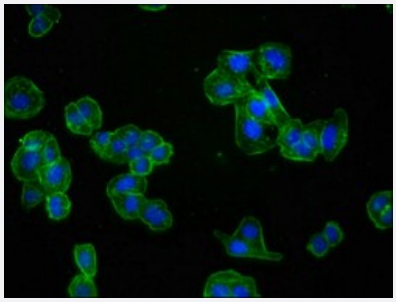
Catalog # RAB08003 Size 50 uL

Applications



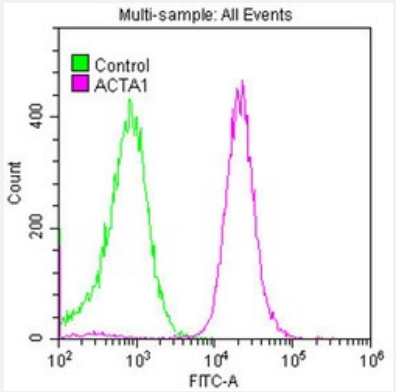
Immunohistochemistry

Immunohistochemical staining of human kidney tissue with ACTA1 recombinant monoclonal antibody (diluated at 1:100).



Immunofluorescence

Immunofluorescent staining of HepG2 cells with ACTA1 recombinant monoclonal antibody (diluated at 1:60). The secondary antibody was Alexa Fluor 488-congugated goat anti-rabbit IgG (green). Counter-stain DAPI was used (blue).

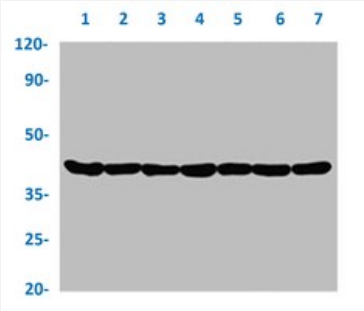


Flow Cytometry

Flow cytometric analysis of HeLa cells with ACTA1 recombinant monoclonal antibody (diluated at 1:50; purple line) and negative control (green line).

Copyright © 2023 Abnova Corporation. All Rights Reserved.

Western Blot



Western blot analysis of
Lane 1: Hela whole cell lysate,
Lane 2: A549 whole cell lysate,
Lane 3: Raw264.7 whole cell lysate,
Lane 4: NIH/3T3 whole cell lysate,
Lane 5: HepG2 whole cell lysate,
Lane 6: rat brain tissue and
Lane 7: rat heart tissue with ACTA1 recombinant monoclonal antibody.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human ACTA1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human ACTA1.
Theoretical MW (kDa)	Calculated MW: 42 kD
Reactivity	Human, Mouse, Rat
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Affinity chromatography
Isotype	IgG
Recommend Usage	ELISA Flow Cytometry Immunofluorescence (1:30-1:200) Immunohistochemistry (1:50-1:500) Western Blot (1:500-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150mM NaCl, 50% glycerol and 0.02% sodium azide)
Storage Instruction	store at -20 °C or -80 °C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Copyright © 2023 Abnova Corporation. All Rights Reserved.

Applications

- Immunohistochemistry

  Immunohistochemical staining of human kidney tissue with ACTA1 recombinant monoclonal antibody (diluated at 1:100).

- Immunofluorescence

  Immunofluorescent staining of HepG2 cells with ACTA1 recombinant monoclonal antibody (diluated at 1:60). The secondary antibody was Alexa Fluor 488-congugated goat anti-rabbit IgG (green). Counter-stain DAPI was used (blue).

- Flow Cytometry

  Flow cytometric analysis of HeLa cells with ACTA1 recombinant monoclonal antibody (diluated at 1:50; purple line) and negative control (green line).

- Enzyme-linked Immunoabsorbent Assay

- Western Blot

  Western blot analysis of
  Lane 1: Hela whole cell lysate,
  Lane 2: A549 whole cell lysate,
  Lane 3: Raw264.7 whole cell lysate,
  Lane 4: NIH/3T3 whole cell lysate,
  Lane 5: HepG2 whole cell lysate,
  Lane 6: rat brain tissue and
  Lane 7: rat heart tissue with ACTA1 recombinant monoclonal antibody.

Gene Info — ACTA1

Entrez GeneID	58
Protein Accession#	P68133
Gene Name	ACTA1
Gene Alias	ACTA, ASMA, CFTD, CFTD1, CFTDM, MPFD, NEM1, NEM2, NEM3
Gene Description	actin, alpha 1, skeletal muscle
Omim ID	102610 161800 255310
Gene Ontology	Hyperlink

Copyright © 2023 Abnova Corporation. All Rights Reserved.

Gene Summary	The product encoded by this gene belongs to the actin family of proteins, which are highly conserved proteins that play a role in cell motility, structure and integrity. Alpha, beta and gamma actin isoforms have been identified, with alpha actins being a major constituent of the contractile apparatus, while beta and gamma actins are involved in the regulation of cell motility. This actin is an alpha actin that is found in skeletal muscle. Mutations in this gene cause nemaline myopathy type 3, congenital myopathy with excess of thin myofilaments, congenital myopathy with cores, and congenital myopathy with fiber-type disproportion, diseases that lead to muscle fiber defects. [provided by RefSeq
Other Designations	OTTHUMP00000036123|alpha skeletal muscle actin

Disease

- Acute Disease
- Alzheimer disease
- Atherosclerosis
- Calcinosis
- Coronary Artery Disease
- Diabetes Mellitus
- Myocardial Infarction
- Parkinson disease

Copyright © 2023 Abnova Corporation. All Rights Reserved.